

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P880932

Luminaire Tested: **24CZ2-55VHE-RDP-B2750-W2D-2700K**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P880932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474311)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55VHE-RDP-B2750-W2D-2700K
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

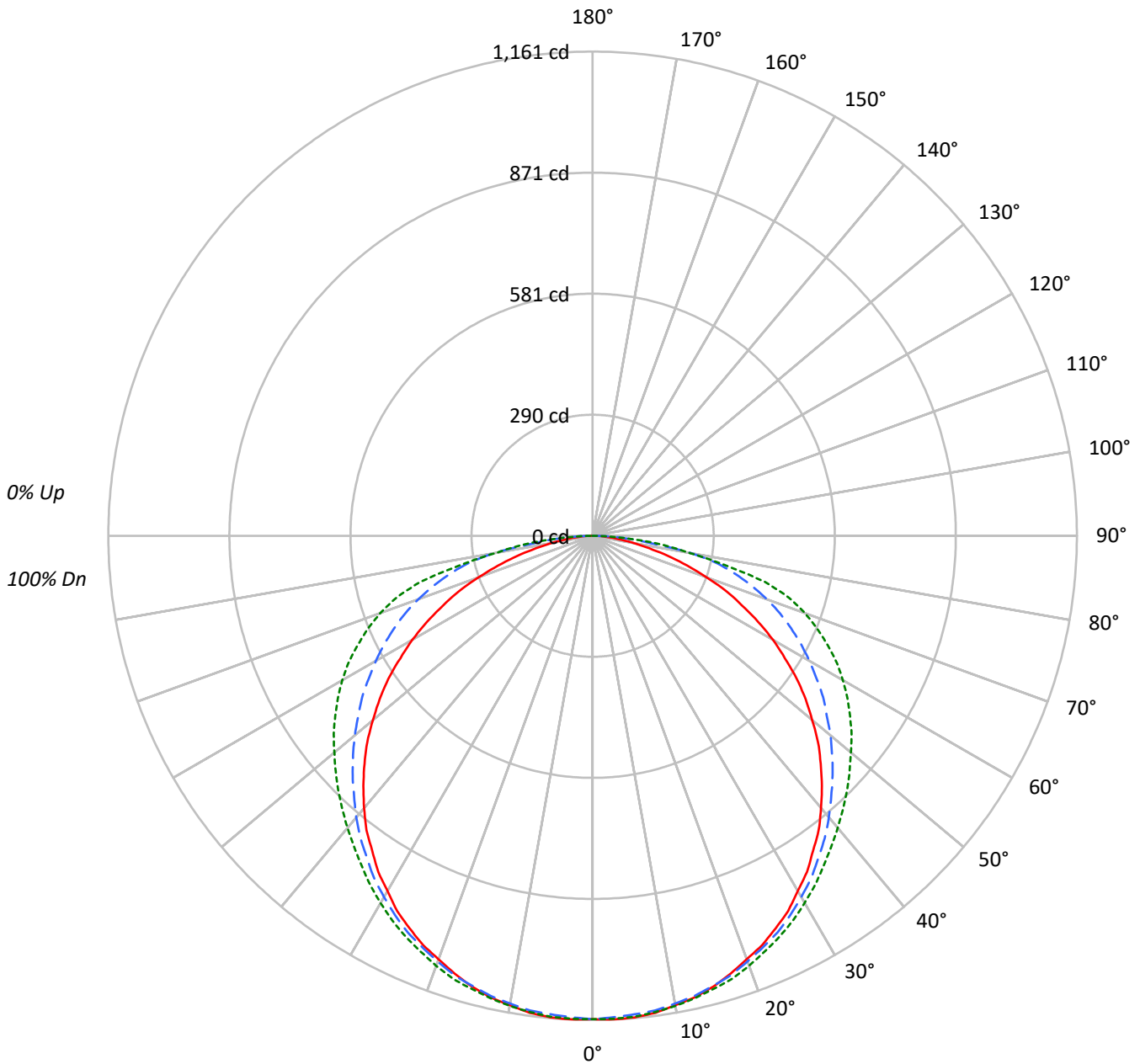
Lumens per Lamp: N/A
Luminaire Lumens: 3686.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1636	1636	1636
5°	1642	1632	1640
10°	1638	1632	1640
15°	1635	1632	1643
20°	1623	1631	1648
25°	1617	1634	1651
30°	1603	1630	1657
35°	1588	1625	1663
40°	1570	1623	1684
45°	1544	1624	1722
50°	1509	1634	1775
55°	1471	1660	1853
60°	1409	1693	1956
65°	1319	1752	2076
70°	1200	1834	2233
75°	1016	1934	2333
80°	802	1946	1886
85°	593	1480	1660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.0
10°-20°	316.5	8.6
20°-30°	483.9	13.1
30°-40°	591.6	16.0
40°-50°	630.5	17.1
50°-60°	602.8	16.4
60°-70°	510.7	13.9
70°-80°	343.2	9.3
80°-90°	96.8	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	910.3	24.7
0°-40°	1501.9	40.7
0°-60°	2735.3	74.2
0°-90°	3686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1159	1157	1152	1157	1157	110
15°	1119	1119	1117	1126	1124	315
25°	1038	1042	1049	1058	1060	479
35°	921	929	943	962	965	577
45°	773	786	814	848	863	597
55°	598	620	675	728	753	532
65°	395	435	525	594	622	392
75°	186	254	355	415	428	200
85°	37	75	91	99	102	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1159.2	1159.2	1159.2	1159.2	1159.2
2.5°	1161.0	1161.0	1155.5	1159.2	1159.2
5°	1159.2	1157.4	1151.9	1157.4	1157.4
7.5°	1153.7	1151.9	1148.1	1153.7	1151.9
10°	1142.8	1142.8	1139.0	1144.6	1144.6
12.5°	1133.5	1131.7	1129.9	1137.2	1135.5
15°	1118.9	1118.9	1117.1	1126.2	1124.4
17.5°	1100.6	1102.4	1104.4	1111.7	1113.5
20°	1080.5	1084.2	1086.0	1097.1	1097.1
22.5°	1062.3	1064.1	1067.8	1078.7	1078.7
25°	1038.5	1042.1	1049.4	1058.5	1060.5
27.5°	1014.6	1016.6	1025.7	1038.5	1040.3
30°	983.5	989.1	1000.1	1014.6	1016.6
32.5°	956.2	961.6	974.4	989.1	992.8
35°	921.4	928.7	943.4	961.6	965.3
37.5°	890.3	895.7	914.1	934.3	939.6
40°	852.1	862.8	881.2	905.0	914.1
42.5°	813.6	824.6	846.6	877.5	888.4
45°	773.4	786.3	813.6	848.4	862.8
47.5°	733.2	747.9	778.9	819.1	835.5
50°	687.3	705.7	744.1	789.8	808.2
52.5°	643.6	665.6	707.5	758.8	782.5
55°	597.7	619.7	674.7	727.7	753.2
57.5°	546.7	575.8	636.3	696.6	723.9
60°	499.2	526.5	599.7	665.6	692.9
62.5°	447.9	484.5	563.1	632.5	660.0
65°	394.9	435.3	524.7	594.2	621.6
67.5°	347.4	391.3	486.3	555.8	583.1
70°	290.7	345.5	444.4	513.6	541.1
72.5°	237.6	298.0	400.4	468.1	493.6
75°	186.4	254.1	354.7	415.1	427.9
77.5°	139.1	210.1	307.1	332.8	323.7
80°	98.7	168.4	239.4	226.6	232.1
82.5°	64.1	128.0	148.2	168.4	173.5
85°	36.6	75.0	91.4	98.7	102.5
87.5°	16.4	27.5	36.6	36.6	34.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)